	Application No.	Applicant(s)	
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Nation of Allowahility	10/812,003	KU ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Cheung Lee	2812	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS	ve
1. \boxtimes This communication is responsive to <u>the Amendment filed</u>	on 9/19/06.		
2. The allowed claim(s) is/are 3-24 and 26-41.			
3. Acknowledgment is made of a claim for foreign priority unall All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to attached Examiner's comment regarding REQUIREMENT	been received. been received in Application No cuments have been received in this of this communication to file a reply lENT of this application. itted. Note the attached EXAMINER as reason(s) why the oath or declar at be submitted. son's Patent Drawing Review (PTC) s Amendment / Comment or in the .84(c)) should be written on the draw the header according to 37 CFR 1.121 sit of BIOLOGICAL MATERIAL	complying with the requirements R'S AMENDMENT or NOTICE OF ration is deficient. 0-948) attached Office action of rings in the front (not the back) of (id). must be submitted. Note the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 08-17-06 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	9. Other	y (PTO-413), ate <u>20060927</u> .	
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DETAILED ACTION

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Notice to Applicant

Applicants' Amendment and Response to the Office Action mailed on April 20,
 2006 has been entered and made of record.

Response to Amendment

2. In view of applicants' amendments and arguments filed on September 19, 2006, the rejections of claims 1, 23-24 and 26-35 under 35 U.S.C. 103(a) as stated in the indicated Office Action have been withdrawn.

Examiner's Amendment

- 3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 4. Authorization for this examiner's amendment was given in a telephone interview with Mr. Gregory Brummett on September 26, 2006.
- 5. The application has been amended as follows:
 - Cancellation of claim 2.
 - In claim 3, line 1, replace "Original" with -- Currently Amended--.
 - In claim 3, line 2, replace "claim 2" with --claim 41--.
 - In claim 6, line 2, replace "claim 2" with --claim 41--.

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In claim 8, line 2, replace "claim 2" with --claim 41--.

- In claim 9, line 2, replace "claim 2" with --claim 41--.
- In claim 41, replace "(not Entered)" with --(Previously Presented) A
 method of forming a semiconductor device comprising, in order:
 implanting a dopant into a substrate to form a source/drain region;
 forming a silicide blocking layer on the substrate;

annealing the substrate to activate a portion of the dopant, the annealing being conducted at an anneal temperature T_a ;

exposing silicon surfaces on the substrate;

forming silicide layers on the exposed silicon surfaces by depositing a nickel alloy layer on the exposed silicon surfaces, the nickel alloy including nickel and an alloying metal; and

reacting the nickel alloy layer with the exposed silicon surface to form a nickel silicide layer having an upper layer and a lower layer, wherein the alloying metal is preferentially segregated in the upper layer, and further wherein the silicide layers are formed at a silidation temperature T_s , wherein $T_s < T_{a^{--}}$.

Reason for Allowance

6. Claims 3-24 and 26-41 are allowed.

The reasons of allowance were given in the Office Action mailed on April 20, 2006.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cheung Lee whose telephone number is 571-272-5977. The examiner can normally be reached on Monday through Friday from 8:30AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Cheung Lee

September 27, 2006

MICHAEL LEBENTRITT
SUPERVISORY PATENT EXAMINER

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